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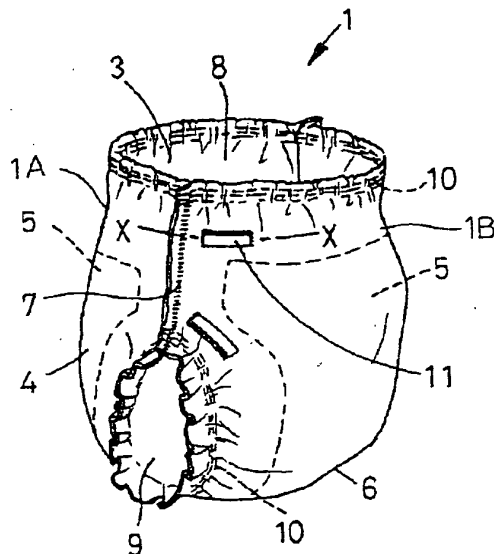
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(54)【考案の名称】 使い捨てパンツ型着用物品

(57)【要約】

【目的】 使い捨てパンツ型着用物品の胴周りの弛みでダーツを設けておくことのできるようにする。

【構成】 パンツ型着用物品1において、胴周り開口部8および脚周り開口部9の周縁と並行に伸びて、外面シート4に止着可能な一端側が外面シートに固着され、対向端側に粘着剤塗布部を有する止着テープ11を設ける。



(2)

2

【実用新案登録請求の範囲】

【請求項1】 前身頃と後身頃とを左右腰周り側部の内面で重ね合わせて接合することで前・後身頃の左右側縁が前記接合部位において外側に向けられるとともに、前記接合により胴周り開口部と左右一対の脚周り開口部とが形成されている使い捨てパンツ型着用物品において、少なくとも胴周り開口部の周縁近傍において前身頃と後身頃のいずれか一方の外面に一端側の片面が固着され、その対向端側の同じ片面に接着剤塗布部を有する止着テープが、前記周縁と並行に伸びて前記接合部位をまたぎ、前記固着がなされていない方の身頃の外面に前記対向端側の粘着剤塗布部を介して止着可能に設けられていることを特徴とする前記パンツ型着用物品。

【請求項2】 前記前・後身頃および前記止着テープが伸縮性材料である請求項1記載のパンツ型着用物品。

【図面の簡単な説明】

【図1】 この考案に係るパンツ型着用物品の斜視図。 \*

\* 【図2】 図1のX-X線断面図。

【図3】 止着テープの使用状態を示す図1と同様の斜視図。

【図4】 図3のY-Y線断面図。

【図5】 丸めたおむつの斜視図。

【符号の説明】

1 パンツ型着用物品

1A 前身頃

1B 後身頃

4 外面シート

7 接合線

8 胴周り開口部

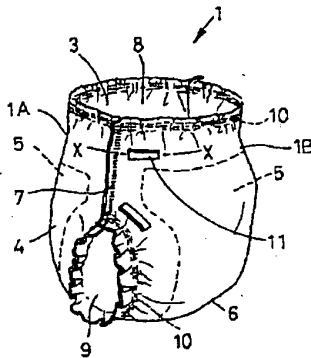
9 脚周り開口部

11 止着テープ

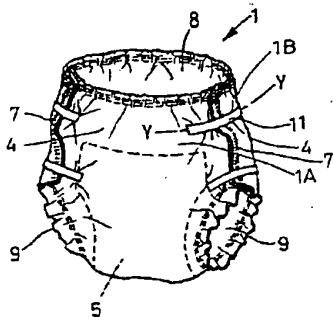
12 一端（固着部分）

15 粘着剤層

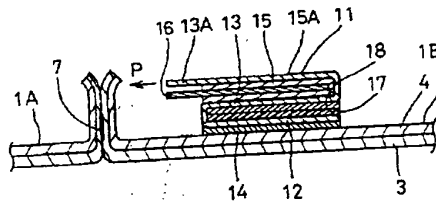
【図1】



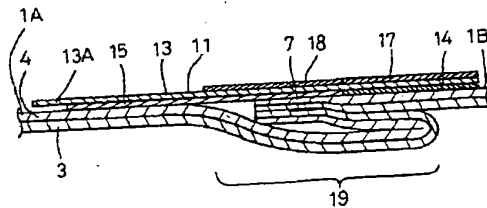
【図3】



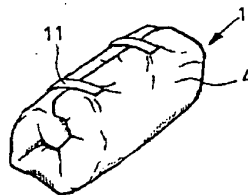
【図2】



【図4】



【図5】



(3)

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フロントページの続き

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## 【考案の詳細な説明】

【0001】

## 【産業上の利用分野】

この考案は使い捨てのパンツ型着用物品に関する。

【0002】

## 【従来の技術】

従来、使い捨てのパンツ型着用物品としては使い捨ておむつ、使い捨てトレーニングパンツ等が周知である。これらのパンツ型着用物品を着用者の身体にフィットさせるためにはこの物品の胴周り開口部および脚周り開口部の開口周縁に沿ってゴムひも等の弾性部材を設ける手段がある。

【0003】

## 【考案が解決しようとする課題】

この着用物品が着用者にとって大きすぎたり、弾性部材の収縮力が着用者に十分に作用しなかったりすると着用物品の開口部には弛みが生じ、着用したこの物品がずり下がるとかその脚周りから尿、その他の排泄物が漏れるという問題がある。

【0004】

そこで、この考案は着用物品の外面に開口部周縁と並行に伸ばして止着することのできる止着テープを設け、開口部に生じた弛みでダーツを設けておくことができるようにすることで前記問題を解決することを課題にしている。

【0005】

## 【課題を解決するための手段】

この考案が前記課題を解決するために要旨とするところは、以下のとおりである。

【0006】

この考案は前身頃と後身頃とを左右腰周り側部の内面で重ね合わせて接合することで、前・後身頃の左右側縁が前記接合部位において外側に向けられるとともに、前記接合により胴周り開口部と左右一対の脚周り開口部とが形成されている使い捨てパンツ型着用物品を前提にしている。

## 【0007】

かかる着用物品で、少なくとも腰周り開口部の周縁近傍において前身頃と後身頃のいずれか一方の外面に一端側の片面が固着され、その対向端側の同じ片面には粘着剤塗布部を有する止着テープが、前記周縁と並行に伸びて前記接合部位をまたぎ、前記固着がなされていない方の身頃の外面に前記対向端側の粘着剤塗布部を介して止着可能に設けられていること、がこの考案の特徴である。

## 【0008】

この考案の好ましい実施態様においては、前記前・後身頃および前記止着テープが伸縮性材料である。

## 【0009】

## 【作用】

この考案に係るパンツ型着用物品では、開口部周縁と並行に伸びて腰周り側部の接合部位をまたいで止着することのできる止着テープが設けてあるから、この物品を着用したときに生ずる開口部の弛みでダーツを設けておくことができる。また、止着テープは接合部位で外側に向けられた前・後身頃の側縁を外面上に折り重ねるように止着することができる。

## 【0010】

## 【実施例】

この考案に係るパンツ型着用物品の詳細を添付の図に基づいて説明すると以下のとおりである。

## 【0011】

図1は、この考案に係る使い捨てパンツ型おむつ1の斜視図である。おむつ1では、伸縮性の透液性内面シート3と、伸縮性の不透液性外面シート4とが、これらの間に吸収体5を介在させて重ね合わせてあり、これら重ね合わせたシート3、4を股下部位6で二つ折りにし、左右の腰周り側部で接合線7により接合してパンツ型にしてある。おむつ1は前身頃1A、後身頃1B、腰周り開口部8、および左右一対の脚周り開口部9とを有し、各開口部8、9にはそれらの周縁と並行に外面シート4の内側にリボン状の弾性部材10が伸張下に間欠的に接合されている。重ね合わせた内・外面シート3、4の側縁は接合線7においておむつ

1の外側に向かって延出している。着用前のおむつ1では弾性部材10が収縮して各開口部8, 9がギャザー仕立てになっている。各開口部8, 9の周縁に沿って、一端片面が後身頃1Bの外面シート4に固着された止着テープ11が設けてある。

#### 【0012】

図2は、図1におけるX-X線断面図であって、止着テープ11の厚み方向の構造を示す。止着テープ11の一端側は固着部分12であって、その片面がホットメルト接着剤14により外面シート4に固着してある。止着テープ11において、長手方向の残余の部分は非固着部分13であって、固着した片面と同じ片面に粘着剤15を塗布した粘着剤塗布部15Aと、塗布していない摘持部13Aとを有する。この止着テープ11は離型紙16を介して長手方向に三つ折りにしてある。固着部分12の外面には、比較的粘着力の弱い粘着剤17が塗布され、折り返された止着テープ11の粘着剤17に対向する面にはシリコン離型剤18が塗布してある。この粘着剤17により止着テープ11の折り重ねた状態が保たれている。このように構成された止着テープ11は、摘持部13Aを摘持して矢印P方向に引張ると離型紙16、離型剤18の部分が剥がれて、その長さ方向に接合線7をまたいで伸ばすことができる。

#### 【0013】

図3は、離型紙16を取り除いた止着テープ11が引張られて前身頃1A側の外面シート4に止着され、おむつ1の胴周り、脚周りの弛みでダーツを設けた状態にあるおむつ1の斜視図である。

#### 【0014】

図4は、図3のY-Y線断面図である。止着テープ11が接合線7を含む弛みを摘み寄せたダーツ部分19をまたぐように伸びている。止着テープ11は非固着部分13が粘着剤15を介して外面シート4に止着してあり、この止着により接合線7から延出した前・後身頃が外面シート4の上に折り重ねられ、また摘み寄せたダーツ部分19が伸びて元に戻らないようになっている。おむつ1を脱ぐときには、必要なら摘持部13Aを摘持し、止着テープ11の外面シート4に対する止着を剥せばよい。止着テープ11には、伸縮性および非伸縮性のテープ素

材を使うことができる。

【0015】

おむつ1の外面シート4が薄手のプラスチックシートである場合には、止着テープ11を止着する可能性のある範囲に補強用シートを接合しておくことができる。止着テープ11をこの補強用シートに対して着脱を繰り返せば、薄い外面シート4でも破れることがない。

【0016】

図5は、使用済みのおむつ1を丸めた後に止着テープ11を止着した状態を示す斜視図である。このように止着テープ11を利用すると、おむつ1は汚れた部分を露出させることなく始末することができる。

【0017】

【考案の効果】

パンツ型着用物品の胴周りや脚周りに弛みがあるときには、一端が粘着性の止着テープを伸ばして止着することにより、その弛みでダーツを設けておくことができるから、この着用物品のフィット感がよくなるとともに、排泄物が漏れ出るのを防ぐことができる。またこの止着テープは前・後身頃の接合線をまたぎ、接合線からの突出部分を外面に折り重ねるようにすることができる。このようにしておくと、この物品の上に着用したシャツ等が腰周り側部で浮き上がることなく、このシャツを身体によくフィットさせることができる。

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CLAIMS

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[Utility model registration claim]

[Claim 1] While the right-and-left side edge of before and a backward bodice sets at least to said joint by piling up and joining past time and a back bodice by the inside of the circumference flank of the right-and-left waist and being turned outside In the disposable trousers mold wear goods with which circumference opening of a drum and circumference opening of a foot of a Uichi Hidari pair are formed of said junction One side by the side of an end fixes on either external surface of past time and a back bodice [ near the periphery of circumference opening of a drum ] at least. Said trousers mold wear goods characterized by being prepared in the external surface of the direction's bodice on which the firm attachment tape which has the adhesives spreading section on one side with the same opposite one end is extended [ said / a periphery and ], and a crossover and said fixing are not making at least said joint possible [ firm attachment ] through the binder spreading section of said opposite one end.

[Claim 2] Trousers mold wear goods according to claim 1 before [ said ], a backward bodice, and said whose firm attachment tape are elasticity ingredients.

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[Translation done.]



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**DETAILED DESCRIPTION**

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[Detailed explanation of a design]

[0001]

[Industrial Application]

This design is related with disposable trousers mold wear goods.

[0002]

[Description of the Prior Art]

Conventionally, as disposable trousers mold wear goods, a disposable diaper, disposable TORENINGU trousers, etc. are common knowledge. In order to make these trousers mold wear goods fit a wearer's body, there is a means to prepare elastic members, such as an elastic band, along the opening periphery of circumference opening of a drum of these goods and circumference opening of a foot.

[0003]

[Problem(s) to be Solved by the Device]

If these wear goods are too large for a wearer or the shrinkage force of an elastic member does not fully act on a wearer, there is a problem that slack arises and urine and other excrement leak [ these worn goods / the bottom of a shearing ] from the circumference of \*\* or its foot in opening of wear goods.

[0004]

Then, it is making into the technical problem to solve said problem by this design preparing the firm attachment tape which can lengthen on the external surface of wear goods in parallel with an opening periphery, and can be attached firmly to it, and enabling it to prepare darts by the slack produced in opening.

[0005]

[Means for Solving the Problem]

The place made into a summary in order that this design may solve said technical problem is as follows.

[0006]

this design -- past time and later self -- piling up time by the inside of the circumference flank of the right-and-left waist, and joining -- it is -- before and later self -- it is premised on the disposable trousers mold wear goods with which circumference opening of a drum and circumference opening of a foot of a Uichi Hidari pair are formed of said junction, while the right-and-left side edge at the time sets at least to said joint and is turned outside.

[0007]

In these wear goods, one side by the side of an end fixes on either external surface of past time and a back bodice [ near the periphery of circumference opening of the waist ] at least. They are being prepared in the external surface of the direction's bodice on which the firm attachment tape which has the binder spreading section is extended [ said / a periphery and ] on one side with the same opposite one end, and a crossover and said fixing are not making at least said joint possible [ firm attachment ] through the binder spreading section of said opposite one end, and the description of a design of \*\*\*.

[0008]

In the desirable embodiment of this design, before [ said ], a backward bodice, and said firm attachment tape are elasticity ingredients.

[0009]

[Function]

In the trousers mold wear goods concerning this design, since the firm attachment tape which can be extended in parallel with an opening periphery, and can straddle and attach at least the joint of the

circumference flank of the waist firmly is prepared, darts can be prepared by the slack of opening produced when these goods are worn.

Moreover, before being turned outside at least by the joint, a firm attachment tape can be attached firmly so that the side edge of - backward bodice may be turned up on external surface.

[0010]

[Example]

It is as follows when it explains based on drawing of attachment of the detail of the trousers mold wear goods concerning this design.

[0011]

Drawing 1 is the perspective view of the disposable trousers mold diaper 1 concerning this design. In the diaper 1, an absorber 5 is made to intervene among these and it has piled up, and the liquid-permeable inner sheet 3 of elasticity and the non-liquid-permeable nature external surface sheet 4 of elasticity fold in two the sheets 3 and 4 set in these piles by the length-from-the-crotch-to-the-cuff part 6, join by the junction line 7 by the circumference flank of the waist on either side, and are used as the trousers mold. A diaper 1 has 1-at past time A, back bodice 1B, the circumference opening 8 of the waist, and the circumference opening 9 of a foot of a Uichi Hidari pair, and is intermittently joined to each openings 8 and 9 in parallel with those peripheries under the elongation of the ribbon-like elastic member 10 to the inside of the outside sheet 4. While you made it pile each other up, the side edge of - external surface sheets 3 and 4 has extended toward the outside of a diaper 1 in the junction line 7. In the diaper 1 before wear, an elastic member 10 contracts and each openings 8 and 9 have become a gathers cut. The firm attachment tape 11 which end one side fixed on the outside sheet 4 of back bodice 1B is formed along the periphery of each openings 8 and 9.

[0012]

Drawing 2 is X-X-ray sectional view in drawing 1, and shows the structure of the thickness direction of the firm attachment tape 11. It is the fixing part 12 and the end side of the firm attachment tape 11 has fixed the one side on the outside sheet 4 with hot melt adhesive 14. In the firm attachment tape 11, the part of the remainder of a longitudinal direction is the non-fixing part 13, and has binder spreading section 15A which applied the binder 15 to the same one side as one side which fixed, and \*\*\*\*\* 13A which has not been applied. This firm attachment tape 11 is made into the longitudinal direction through the release paper 16 at three fold. The silicon release agent 18 is applied to the field which the binder 17 with comparatively weak adhesion is applied to the external surface of the fixing part 12, and counters the binder 17 of the turned-up firm attachment tape 11. The condition that the firm attachment tape 11 turned up with this binder 17 is maintained. Thus, if the constituted firm attachment tape 11 \*\*\*\* \*\*\*\*\* 13A and pulls it in the direction of arrow-head P, the parts of a release paper 16 and a release agent 18 separate, and it can be lengthened ranging over the junction line 7 in the die-length direction.

[0013]

Drawing 3 is the perspective view of the diaper 1 in the condition of the firm attachment tape 11 which removed the release paper 16 having been pulled, and it having been attached firmly to the outside sheet 4 by the side of 1A at the past time, and having prepared darts by slack of the circumference of the drum of a diaper 1, and the circumference of a foot.

[0014]

Drawing 4 is the Y-Y line sectional view of drawing 3. It is extended so that the firm attachment tape 11 may straddle the darts part 19 which gathered and brought near the slack containing the junction line 7. Before it has attached the non-fixing part 13 firmly to the outside sheet 4 through the binder 15 and it extends from the junction line 7 by this firm attachment, - backward bodice is turned up on the outside sheet 4, and the darts part 19 gathered and brought near is extended, and the firm attachment tape 11 returns. What is necessary is to \*\*\*\* \*\*\*\*\* 13A, if and just to remove the firm attachment to the outside sheet 4 of the firm attachment tape 11, when you remove a diaper 1. The tape material of elasticity and non-elasticity can be used for the firm attachment tape 11.

[0015]

When the outside sheet 4 of a diaper 1 is a thin sheet plastic, the sheet for reinforcement can be joined to the range which may attach the firm attachment tape 11 firmly. The firm attachment tape 11 will not be torn with the thin outside sheet 4, either, if attachment and detachment are repeated to this sheet for reinforcement.

[0016]

Drawing 5 is the perspective view showing the condition of having attached the firm attachment tape 11 firmly, after rounding off the used diaper 1. Thus, if the firm attachment tape 11 is used, it can dispose of a diaper 1, without exposing the unclean part.

[0017]

[Effect of the Device]

Since darts can be prepared by that slack when slack is in the circumference of the drum of trousers mold wear goods, or the circumference of a foot, and an end lengthens and attaches an adhesive firm attachment tape firmly, while the feeling of a fit of these wear goods becomes good, it can prevent excrement's leaking and coming out. Moreover, this firm attachment tape can turn up a part for the lobe from a crossover and a junction line for the junction line of before and a backward bodice outside. Thus, this shirt can be made to fit the body well, without the shirt worn on these goods coming floating by the circumference flank of the waist, if it sets.

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[Translation done.]

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TECHNICAL FIELD

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[Industrial Application]

This design is related with disposable trousers mold wear goods.

[0002]

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[Translation done.]

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**PRIOR ART**

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**[Description of the Prior Art]**

Conventionally, as disposable trousers mold wear goods, a disposable diaper, disposable TORENINGU trousers, etc. are common knowledge. In order to make these trousers mold wear goods fit a wearer's body, there is a means to prepare elastic members, such as an elastic band, along the opening periphery of circumference opening of a drum of these goods and circumference opening of a foot.

[0003]

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**EFFECT OF THE INVENTION**

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**[Effect of the Device]**

Since darts can be prepared by that slack when slack is in the circumference of the drum of trousers mold wear goods, or the circumference of a foot, and an end lengthens and attaches an adhesive firm attachment tape firmly, while the feeling of a fit of these wear goods becomes good, it can prevent excrement's leaking and coming out. Moreover, this firm attachment tape can turn up a part for the lobe from a crossover and a junction line for the junction line of before and a backward bodice outside. Thus, this shirt can be made to fit the body well, without the shirt worn on these goods coming floating by the circumference flank of the waist, if it sets.

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TECHNICAL PROBLEM

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[Problem(s) to be Solved by the Device]

If these wear goods are too large for a wearer or the shrinkage force of an elastic member does not fully act on a wearer, there is a problem that slack arises and urine and other excrement leak [ these worn goods / the bottom of a shearing ] from the circumference of \*\* or its foot in opening of wear goods.

[0004]

Then, it is making into the technical problem to solve said problem by this design preparing the firm attachment tape which can lengthen on the external surface of wear goods in parallel with an opening periphery, and can be attached firmly to it, and enabling it to prepare darts by the slack produced in opening.

[0005]

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[Translation done.]

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MEANS

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[Means for Solving the Problem]

The place made into a summary in order that this design may solve said technical problem is as follows.

[0006]

this design — past time and later self — piling up time by the inside of the circumference flank of the right-and-left waist, and joining — it is — before and later self — it is premised on the disposable trousers mold wear goods with which circumference opening of a drum and circumference opening of a foot of a Uichi Hidari pair are formed of said junction, while the right-and-left side edge at the time sets at least to said joint and is turned outside.

[0007]

In these wear goods, one side by the side of an end fixes on either external surface of past time and a back bodice [ near the periphery of circumference opening of the waist ] at least. They are being prepared in the external surface of the direction's bodice on which the firm attachment tape which has the binder spreading section is extended [ said / a periphery and ] on one side with the same opposite one end, and a crossover and said fixing are not making at least said joint possible [ firm attachment ] through the binder spreading section of said opposite one end, and the description of a design of \*\*\*\*.

[0008]

In the desirable embodiment of this design, before [ said ], a backward bodice, and said firm attachment tape are elasticity ingredients.

[0009]

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[Translation done.]



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**OPERATION**

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**[Function]**

In the trousers mold wear goods concerning this design, since the firm attachment tape which can be extended in parallel with an opening periphery, and can straddle and attach at least the joint of the circumference flank of the waist firmly is prepared, darts can be prepared by the slack of opening produced when these goods are worn.

Moreover, before being turned outside at least by the joint, a firm attachment tape can be attached firmly so that the side edge of - backward bodice may be turned up on external surface.

[0010]

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EXAMPLE

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[Example]

It is as follows when it explains based on drawing of attachment of the detail of the trousers mold wear goods concerning this design.

[0011]

Drawing 1 is the perspective view of the disposable trousers mold diaper 1 concerning this design. In the diaper 1, an absorber 5 is made to intervene among these and it has piled up, and the liquid-permeable inner sheet 3 of elasticity and the non-liquid-permeable nature external surface sheet 4 of elasticity fold in two the sheets 3 and 4 set in these piles by the length-from-the-crotch-to-the-cuff part 6, join by the junction line 7 by the circumference flank of the waist on either side, and are used as the trousers mold. A diaper 1 has 1-at past time A, back bodice 1B, the circumference opening 8 of the waist, and the circumference opening 9 of a foot of a Uichi Hidari pair, and is intermittently joined to each openings 8 and 9 in parallel with those peripheries under the elongation of the ribbon-like elastic member 10 to the inside of the outside sheet 4. While you made it pile each other up, the side edge of - external surface sheets 3 and 4 has extended toward the outside of a diaper 1 in the junction line 7. In the diaper 1 before wear, an elastic member 10 contracts and each openings 8 and 9 have become a gathers cut. The firm attachment tape 11 which end one side fixed on the outside sheet 4 of back bodice 1B is formed along the periphery of each openings 8 and 9.

[0012]

Drawing 2 is X-X-ray sectional view in drawing 1, and shows the structure of the thickness direction of the firm attachment tape 11. It is the fixing part 12 and the end side of the firm attachment tape 11 has fixed the one side on the outside sheet 4 with hot melt adhesive 14. In the firm attachment tape 11, the part of the remainder of a longitudinal direction is the non-fixing part 13, and has binder spreading section 15A which applied the binder 15 to the same one side as one side which fixed, and \*\*\*\*\* 13A which has not been applied. This firm attachment tape 11 is made into the longitudinal direction through the release paper 16 at three fold. The silicon release agent 18 is applied to the field which the binder 17 with comparatively weak adhesion is applied to the external surface of the fixing part 12, and counters the binder 17 of the turned-up firm attachment tape 11. The condition that the firm attachment tape 11 turned up with this binder 17 is maintained. Thus, if the constituted firm attachment tape 11 \*\*\*\* \*\*\*\*\* 13A and pulls it in the direction of arrow-head P, the parts of a release paper 16 and a release agent 18 separate, and it can be lengthened ranging over the junction line 7 in the die-length direction.

[0013]

Drawing 3 is the perspective view of the diaper 1 in the condition of the firm attachment tape 11 which removed the release paper 16 having been pulled, and it having been attached firmly to the outside sheet 4 by the side of 1A at the past time, and having prepared darts by slack of the circumference of the drum of a diaper 1, and the circumference of a foot.

[0014]

Drawing 4 is the Y-Y line sectional view of drawing 3. It is extended so that the firm attachment tape 11 may straddle the darts part 19 which gathered and brought near the slack containing the junction line 7. Before it has attached the non-fixing part 13 firmly to the outside sheet 4 through the binder 15 and it extends from the junction line 7 by this firm attachment, - backward bodice is turned up on the outside sheet 4, and the darts part 19 gathered and brought near is extended, and the firm attachment tape 11 returns. What is necessary is to \*\*\*\* \*\*\*\*\* 13A, if and just to remove the firm attachment to the outside sheet 4 of the firm attachment tape 11, when you remove a diaper 1. The tape material of elasticity and non-elasticity can be

used for the firm attachment tape 11.

[0015]

When the outside sheet 4 of a diaper 1 is a thin sheet plastic, the sheet for reinforcement can be joined to the range which may attach the firm attachment tape 11 firmly. The firm attachment tape 11 will not be torn with the thin outside sheet 4, either, if attachment and detachment are repeated to this sheet for reinforcement.

[0016]

Drawing 5 is the perspective view showing the condition of having attached the firm attachment tape 11 firmly, after rounding off the used diaper 1. Thus, if the firm attachment tape 11 is used, it can dispose of a diaper 1, without exposing the unclean part.

[0017]

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DESCRIPTION OF DRAWINGS

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[Brief Description of the Drawings]

[Drawing 1] The perspective view of the trousers mold wear goods concerning this design.

[Drawing 2] X-X-ray sectional view of drawing 1 .

[Drawing 3] The same perspective view as drawing 1 which shows the busy condition of a firm attachment tape.

[Drawing 4] The Y-Y line sectional view of drawing 3 .

[Drawing 5] The perspective view of the diaper rounded off.

[Description of Notations]

1 Trousers Mold Wear Goods

1A Past time

1B Back bodice

4 Outside Sheet

7 Junction Line

8 Circumference Opening of Drum

9 Circumference Opening of Foot

11 Firm Attachment Tape

12 End (Fixing Part)

15 Binder Layer

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[Translation done.]

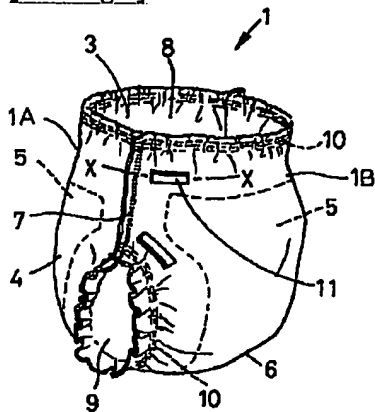
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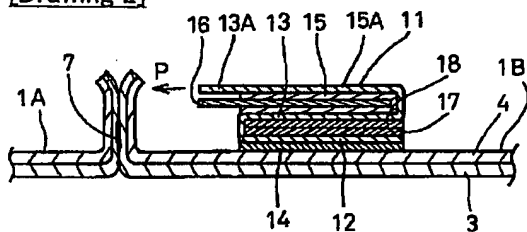
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## DRAWINGS

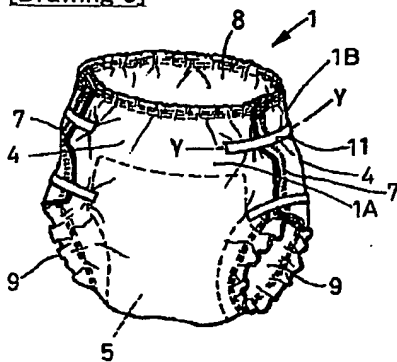
[Drawing 1]



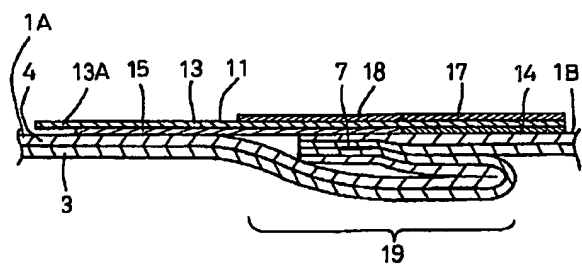
[Drawing 2]



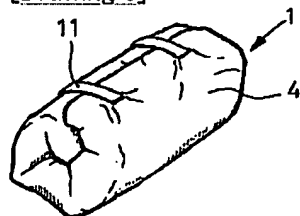
[Drawing 3]



[Drawing 4]



[Drawing 5]



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[Translation done.]